

# MARINE CORPS WARFIGHTING LABORATORY

The purpose of the **Joint Expeditionary Field Fortification (JEFF)** initiative which includes the Rapid Deployment Fortification Wall (RDFW) is to leverage modern materials and techniques, in order to increase force protection while decreasing the manpower hours needed to construct expedient fortifications in support of the Marine Air-Ground Task Force (MAGTF).

**Background:** MCWL received funding in the form of a Congressional Enhancement, to experiment with the RDFW, an expandable, stackable, modular wall made of tough, lightweight, environmentally responsible plastic that can possibly serve as an augmentation to sandbags. This technology can serve to rapidly construct field fortifications for bunkers, standoff blast and ballistic protection units, and other hardened shelters and aircraft revetments. It is made to function as a material solution to Airfield Damage Repair (ADR) and Rapid Runway Repair (RRR) and augment horizontal construction.

Currently the “expedient” fortification technique is manpower intensive and consists of a one-time sandbag construction method. Based on the rapidly changing asymmetric environment our Marines operate in, the need to provide easy-to-build, scalable, and reusable force protection structures is critical.

**Concept of Experimentation:** To provide the RDFW to various Marine Corps units for assessment of military utility as a replacement to sandbags in the construction of field fortifications, augment road construction, Airfield Damage Repair (ADR) and Rapid Runway Repair in addition to establishing Tactics, Techniques and Procedures for its employment. These assessments will occur in conjunction with the MAGTF Utility Tractor, Tactical (MUTT), as the RDFW’s primary means to fill and level.

## JOINT EXPEDITIONARY FIELD FORTIFICATION

### *fact sheet*



#### **Status:**

- Product sent to I MEF (400 grids) and II MEF (500 grids) for extended user evaluation.
- Future purchases of RDFW can be made via GSA Schedule.

#### *info:*

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